

We claim:

- Sub 21 >
1. A process for dyeing cellulose-containing textile material with indigo which comprises using an aqueous solution of leuco indigo prepared by catalytic hydrogenation and, after the leuco indigo has gone onto the textile material, converting it back into the pigment form in a conventional manner by air oxidation.
2. A process as claimed in claim 1 wherein the leuco indigo solution contains from 10 to 35% by weight of leuco indigo.
- A 3. A process as claimed in claim 1 ~~or 2~~ wherein the leuco indigo solution contains from 2 to 10% by weight of alkali.
- A 4. A process as claimed in ~~any of claims 1 to 3~~ wherein the leuco indigo solution contains from 2 to 10% by weight of sodium hydroxide.
- Sub A1 >
5. ~~A process as claimed in any of claims 1 to 4 wherein the leuco indigo oxidized during dyeing by air contact is electrochemically reduced in the dyeing liquor using a mediator system.~~
6. A process as claimed in claim 5 wherein the mediator used is a transition metal complex.
7. A process as claimed in claim 5 wherein the mediator used is an organic redox system which is substantially reversible under the dyeing conditions.